

## SEQUENCE LISTING

## AL INFORMATION:

APPLICANT: Soppet, Daniel R

Yi, Li

Rosen, Craig A Ruben, Steven

· (ii) TITLE OF INVENTION: G-Protein Parathyroid Hormone receptor HLTDG74

(iii) NUMBER OF SEQUENCES: 8

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein
- (B) STREET: 6 Becker Farm Road
- (C) CITY: Roseland
- (D) STATE: NJ
- (E) COUNTRY: USA
- (F) ZIP: 07068-1739
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk

  - (B) COMPUTER: IBM PC compatible
    (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATÁ:
  - (A) APPLICATION NUMBER: 08/468,011
  - (B) FILING DATE: 06-JUN-1995
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:

  - (A) NAME: Ferraro, Gregory D
    (B) REGISTRATION NUMBER: 36,134
  - (C) REFERENCE/DOCKET NUMBER: 325800-458
  - (ix) TELECOMMUNICATION /INFORMATION:
    (A) TELEPHONE: 201-994-1700
    (B) TELEFAX: 201-994-1744
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2003 base pairs
    (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: CDS
    - (B) LOCATION: 90..1712
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GTTTGCTCTG GGCAGCCAAG TTGGCATATT GGAAGCTTTT TCCGGGCTCT GGAGGAGG 60 CCCTGCTTCT TCCTACAGCC GTTCCGGGC ATG GCC TGG CTG GGG GCG TCG CTC 113 Met Ala Trp Leu Gly Ala Ser Léu CAC GTC TGG GGT TGG CTA ATG CTC GGC AGC TGC CTC CTG GCC AGA GCC 161 His Val Trp Gly Trp Leu Met Leu Gly Ser Cys Leu Leu Ala Arg Ala CAG CTG GAT TCT GAT GGC ACC ATC ACT ATA GAG GAG CAG ATT/GTC CTT 209 Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ilé Val Leu 30 GTG CTG AAA GCG AAA GTA CAA TGT GAA CTC AAC ATC ACA GCT CAA CTC Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln Leu 257 CAG GAG GGA GAA GGT AAT TGT TTC CCT GAA TGG GAT GGA CTC ATT TGT 305 Gln Glu Gly Glu Gly Asn Cys Phe Pro Glu Trp Asp Gly Leu Ile Cys TGG CCC AGA GGA ACA GTG GGG AAA ATA TCG GCT GTT CCA TGC CCT CCT 353 Trp Pro Arg Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro TAT ATT TAT GAC TTC AAC CAT AAA GGA GTT GCT/TTC CGA CAC TGT AAC 401 Tyr Ile Tyr Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn CCC AAT GGA ACA TGG GAT TTT ATG CAC AGC TTA AAT AAA ACA TGG GCC 449 Pro Asn Gly Thr Trp Asp Phe Met His Ser/Leu Asn Lys Thr Trp Ala AAT TAT TCA GAC TGC CTT CGC TTT CTG CAG CCA GAT ATC AGC ATA GGA 497 Asn Tyr Ser Asp Cys Leu Arg Phe Leu G/n Pro Asp Ile Ser Ile Gly AAG CAA GAA TTC TGT GAA CGC CTC TAT/GTA ATG TAT ACC GTT GGC TAC Lys Gln Glu Phe Cys Glu Arg Leu Tyr Val Met Tyr Thr Val Gly Tyr 545 TCC ATC TCT TTT GGT TCC TTG GCT GTG GCT ATT CTC ATC ATT GGT TAC 593 Ser Ile Ser Phe Gly Ser Leu Ala /Val Ala Ile Leu Ile Ile Gly Tyr 160, TTC AGA CGA TTG CAT TGC ACT AGG AAC TAT ATC CAC ATG CAC TTA TTT Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met His Leu Phe 641 175 180 GTG TCT TTC ATG CTG AGA GCT/ACA AGC ATC TTT GTC AAA GAC AGA GTA 689 Val Ser Phe Met Leu Arg Ala Thr Ser Ile Phe Val Lys Asp Arg Val 190 GTC CAT GCT CAC ATA GGA G/TA AAG GAG CTG GAG TCC CTA ATA ATG CAG 737 Val His Ala His Ile Gly Yal Lys Glu Leu Glu Ser Leu Ile Met Gln 205 210 GAT GAC CCA CAA AAT TC¢ ATT GAG GCA ACT TCT GTG GAC AAA TCA CAA 785 Asp Asp Pro Gln Asn Ser Ile Glu Ala Thr Ser Val Asp Lys Ser Gln TAT ATC GGG TGC AAG ATT GCT GTT GTG ATG TTT ATT TAC TTC CTG GCT 833

AC.

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	Tyr	Ile	Gly 235	Cys	Lys	Ile	Ala	Val 240	Val	Met	Phe	Ile	Tyr 245	Phe	Leu	Ala		
	ACA Thr	AAT Asn 250	TAT Tyr	TAT Tyr	TGG Trp	ATC Ile	CTG Leu 255	GTG Val	GAA Glu	GGT Gly	CTC Leu	TAC Tyr 260	CTG Leu	CAT His	AAT Asn	CTC Leu	81	81
	ATC Ile 265	TTT Phe	GTG Val	GCT Ala	TTC Phe	TTT Phe 270	TCG Ser	GAC Asp	ACC Thr	AAA Lys	TAC Tyr 275	CTG Leu	TGG Trp	GGC Gly	TTC Phe	ATC Ile 280	92	29
									GCA Ala								9.	77
									AGG Arg 305								102	25
									CCG Pro								10	73
/									GTT Val								` 112	21
									GAC Asp								116	59
									GTC Val								121	L7
									TCC/ Ser 38/5								126	55
									TTC Phe								131	L3
									AAT Asn								136	51
									CTC Leu								140	)9
	CCG Pro	CCA Pro	TGT Cys	GGC Gly	AGC Ser 445	CGC Arg	AGA Arg	TGC Cys	GGC Gly	TCA Ser 450	GTG Val	CTC Leu	ACC Thr	ACC Thr	GTG Val 455	ACG Thr	145	57
									GTG Val 465								150	)5
									TCG Ser								155	53

										ACT Thr							1601
	490		-			495		•			500		J				
										GAA Glu					,	•	1649
505					510					515					520/		
										AGG Arg					,		1697
J	_	_		525					530					535			
		ACT Thr		_	TGAC	CAAGO	GAG A	AAACI	rgago	A TO	GTTCT	CTG	ATC	GAC	ATGT		1752
	-		540	_													
GTG	CTG	ACT T	rtca:	rggg(	CT GO	STCC	ATGO	G CTC	GTTC	STGT	GAG	AGGG	CTT (	GCTC	SATACT		1812
CCTA	ATGC:	rtg <i>i</i>	AGCAG	CAAA	GG C	rgaaz	ATTO	AG1	ГТААС	GTG	TTAC	CTTA	ATA/	ATAG	АТТТТ		1872
GGCT	CCA!	rga <i>i</i>	ATTGO	GCTC(	CT GT	raaan	ract?	A ACC	GACA	rgaa	AATO	CAAC	FTG 1	rcaa:	rggagt		1932
AGTT	TAT	rac (	CTTC	TATT(	GG CA	ATCAZ	AGTTT	r TCC	CTCTA	TAAA	TAAT	GTA	rgg :	TATT	rgctct		1992
GTG	ATTG	TTC A	A														2003

## (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 541 amino acids (B) TYPE: amino acid

  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Trp Leu Gly Ala Ser Leu His Val/Trp Gly Trp Leu Met Leu Gly Ser Cys Leu Leu Ala Arg Ala Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val Leu Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln Leu Ġln Glu Gly Glu Gly Asn Cys Phe 55 Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg Gly Thr Val Gly Lys 70 Ile Ser Ala Val Pro Cys Pro/Pro Tyr Ile Tyr Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly Thr Trp Asp Phe Met

His Ser Leu Asn Lys Thr/Trp Ala Asn Tyr Ser Asp Cys Leu Arg Phe 115 120 125 120

Leu Gln Pro Asp Ile Sér Ile Gly Lys Gln Glu Phe Cys Glu Arg Leu

130 • 135 140

Tyr Val Met Tyr Thr Val Gly Tyr Ser Ile Ser Phe Gly Ser Leu A/a 150 Val Ala Ile Leu Ile Ile Gly Tyr Phe Arg Arg Leu His Cys Thr/Arg 170 Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg A / a Thr Ser Ile Phe Val Lys Asp Arg Val Val His Ala His Ile Gly /Val Lys Glu Leu Glu Ser Leu Ile Met Gln Asp Asp Pro Gln Asn Ser Ile Glu Ala Thr Ser Val Asp Lys Ser Gln Tyr Ile Gly Cys Lys/Ile Ala Val 230 Val Met Phe Ile Tyr Phe Leu Ala Thr Asn Tyr Tyr Tyr Ile Leu Val Glu Gly Leu Tyr Leu His Asn Leu Ile Phe Val Ala/ Phe Phe Ser Asp Thr Lys Tyr Leu Trp Gly Phe Ile Leu Ile Gly Trp Gly Phe Pro Ala Ala Phe Val Ala Ala Trp Ala Val Ala Arg Alá Thr Leu Ala Asp Ala Arg Cys Trp Glu Leu Ser Ala Gly Asp Ile Lys Trp Ile Tyr Gln Ala 315 Pro Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe Leu Asn Thr Val Arg Val Leu Ala Thr Lys Ile Trp/Glu Thr Asn Ala Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr Leu Val Leu 360 Val Leu Val Phe Gly Val His Tyr/Ile Val Phe Val Cys Leu Pro His Ser Phe Thr Gly Leu Gly Trp Gl/u Ile Arg Met His Cys Glu Leu Phe Phe Asn Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys 410 Asn Gly Glu Val Gln Ala Gl/ Val Lys Lys Met Trp Ser Arg Trp Asn 420 Leu Ser Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser Arg Arg Cys 440 Gly Ser Val Leu Thr Thr Val Thr His Ser Thr Ser Ser Gln Ser Gln 455 Val Ala Ala Ala His Ala Trp Cys Leu Ser Leu Ala Lys Leu Pro Arg

Cont

465 470 475 Ser Pro Ala Asp Ser Leu Thr Ala Thr Ser Leu Tyr Leu Ala Met Ser 490 Gly Val Thr Gln Ser Arg Thr Ala Ser His Thr Leu Ser Thr Arg Ser 510 Asn Lys Glu Asp Ser Gly Arg Gln Arg Asp Asp Ile Leu Met Glu Lys Pro Ser Arg Pro Met Glu Ser Asn Pro Asp Thr Glu Gly (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3/ CAGCCGTCCC GGGCTTGGCC TGG 23 (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: CCTCAGTGTC GACTTGTCAT CCTTCAG 27 (2) INFORMATION FOR SEQ ID/NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: not relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

	/	
	GTTGGCATAT TGGAAGCTTT TTGCGGG	27
	(2) INFORMATION FOR SEQ ID NO:6:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 28 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	• (ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
	CAGTTTCTAG ATGTCATCCT TCAGTGTC	28
<i>(</i> )	(2) INFORMATION FOR SEQ ID NO:7:	
Sici	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 39 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: linear	
4	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO:7:	
	TCCTACCCGG GCCGCCATCA TGGCCTGGCT/GGGGGGCCT	39
	(2) INFORMATION FOR SEQ ID NO:8:	3,
$\alpha^{l}$	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 28 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: not relevant  (D) TOPOLOGY: linear	
Con.	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	CAGTTTCTAG ATGTCATCCT TCAGTGTC	28